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To:					PCT	
see form PCT/ISA/220			INTER	NATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)	
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220				JRTHER A		
International application No. International filing date (PCT/EP2004/010982 30.09.2004		day/month/year) Priority date (day/month/year) 03.10.2003		•		
Interi	International Patent Classification (IPC) or both national classification and IPC C10G45/08, B01J37/02, B01J23/88, B01J23/882, B01J23/883, B01J23/888, B01J23/94, B01J38/60, B01J38/62					
	icant BEMARLE NETH	ERLANDS B.	V.			
1.	 Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 					
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3 - 10 - 70 - 70 - 70 - 70 - 70 - 70 - 70						
						3-24-2005

Name and mailing address of the ISA:



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/010982

Mille Ci Con Co or min R 2006 Box No. I Basis of the opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material: a sequence listing □ table(s) related to the sequence listing b. format of material: in written format in computer readable form c. time of filing/furnishing: contained in the international application as filed. filed together with the international application in computer readable form.

In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

furnished subsequently to this Authority for the purposes of search.

4. Additional comments:

	Box	No. II	Priority	,,			
1.	\boxtimes	☐ The following document has not been furnished:					
		\boxtimes	copy of the earlier a	application	whose pri	iority has been claimed (Rule 43bis.1 and 66.7(a)).	
	translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(
		Conse	quently it has not be neless been establis	en possible	le to conside assumpti	der the validity of the priority claim. This opinion has ion that the relevant date is the claimed priority date.	
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.		was no	nt available to the IS	A at the tir	ne that the	of the priority claim because a copy of the priority document e search was conducted (Rule 17.1). This opinion has ion that the relevant date is the claimed priority date.	
4.	Ado	ditional o	observations, if nece	essary:			
			•	Ţ			
	Bo	x No. V	Reasoned state	ment und	er Rule 43	Bbis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement	
1.		tement	арриовонну, опал				
	Nlov	uothu (NI)	.	Voc:	Claims	1-16,18	
	IVO	velty (N))	No:	Claims	17,19	
	Inv	entive s	tep (IS)	Yes:	Claims	1-16,18	
				No:	Claims	17,19	
	Ind	ustrial a	applicability (IA)	Yes:	Claims	1-19	
				No:	Claims		
2.	Cit	ations a	nd explanations			·	
	se	e separ	ate sheet				
	Bo	x No. V	III Certain observ	vations or	the inter	national application	

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/010982

Re Item V.

IAP20 RECGESTATE 31 MAR 2006

- The following documents are referred to in this communication:
 D1: EP 0 601 722 A (SUMITOMO METAL MINING CO) 15 June 1994 (1994-06-15)
- 2 INDEPENDENT CLAIMS 17 AND 19
- 2.1 The document D1 discloses a hydrotreating catalyst comprising a Group VIB metal oxide and a Group VIII metal oxide, which catalyst additionally comprises an acid and an organic additive such as diethyleneglycol or other polyols (See Example 1 and §2 of p. 6 of D1).
- 2.2 The document D1 further discloses the use of this catalyst for hydrotreating a hydrocarbon feed after presulfidation (See Example 1 of D1).
- 2.3 The subject-matter of present independent claims 17 and 19 is therefore not new (Article 33(1) and (2) PCT).
- 3 INDEPENDENT CLAIM 1
- 3.1 Document D1, which is considered to represent the most relevant state of the art, discloses a process for preparing a hydrotreating catalyst comprising a Group VIB metal oxide and a Group VIII metal oxide, which catalyst additionally comprises an acid and an organic additive such as diethyleneglycol or other polyols (See Example 1 and §2 of p. 6 of D1).
 - From this, the subject-matter of independent claim 1 differs in that the catalyst comprising a Group VIB metal oxide and a Group VIII metal oxide is activated by contact with an acid and an organic additive in a further step.
- 3.1.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT)

 The problem to be solved by the present invention may be regarded as how to optimize a catalyst system for the hydrotreating of hydrocarbons.
- 3.1.2 The solution to this problem proposed in claim 1 of the present application is

considered as involving an inventive step (Article 33(3) PCT) because no document of the prior art on file discloses the activation process nor gives a hint to its effect, as exemplified in example 8 of page 24 of present description.

3.1.3 Claims 2-15 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

4 INDEPENDENT CLAIM 16

- 4.1 Independent claim 16 discloses a catalyst obtained by a process that is novel and inventive. A similar reasoning as in point 3 above leads to the conclusion that this catalyst is novel and inventive.
- 4.2 Claim 18 is dependent on claim 16 and as such also meets the requirements of the PCT with respect to novelty and inventive step.

Re Item VIII.

Claim 19 mentions a catalyst according to claim 10, whereas the subject-matter of claim 10 is a process.

Claim 12 refers to "any of the preceding claims" but relates only to an organic acid, whereas claim 11 relates to an inorganic acid.